REGISTRATION OF DES 56 COTTON1
(Reg. No. 70)
R. R. Bridge and J. F. Chism2

‘Des 56’ cotton (Gossypium hirsutum L.) was developed at the Delta Branch, Mississippi Agricultural and Forestry Experiment Station. DES 56 originated from a cross between ‘Stoneville 213’ and ‘PD 62-164’. The F2 population of this cross was intercrossed at random. DES 56 is from a single plant selection in the F2 generation of the intercross population and a subsequent reselection in the F7 generation. DES 56 has been tested since 1971 as DES 2134-056.

DES 56 is an early maturing and rapid fruiting cotton with dark green foliage. It produced 9% higher lint yields and matured 10 days earlier than ‘Deltapine 16’ in 25 Delta environments over the past 6 years. DES 56 has smaller bolls and seed, slightly shorter fiber, and its height is approximately 15 cm less than that of Deltapine 16. Lint percentage, fiber strength, and micronaire values are approximately the same as those of Deltapine 16. Data from Arizona and Louisiana have shown that the earliness of DES 56 is sufficient to escape some late season insect damage.

Mississippi Foundation Seed Stocks will produce foundation seed which will be sold on a pro rata basis to breeding firms and individuals meeting all standards of the Mississippi Seed Improvement Association for the production of registered seed. When the demand for Mississippi producers has been met, foundation seed may be released to other states provided they have qualifications of those requested of Mississippi producers.

Breeder seed will be maintained by Delta Branch, Mississippi Agricultural and Forestry Experiment Station. Varietal protection will be applied for under the Variety Protection Act, Public Law 91-557.

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REGISTRATION OF ARCTARED RED FESCUE1
(Reg. No. 13)

H. J. Hodgson, R. L. Taylor, L. J. Klebesadel, and A. C. Wilton2

‘Arctared’ (Festuca rubra L.) is a winterhardy, creeping red fescue developed cooperatively by the University of Alaska Agricultural Experiment Station, and the SEA, USDA. Arctared was named and released to seed producers in 1965, after extensive testing in the Matanuska Valley of south-central Alaska as Line 339.

Arctared traces to seed from a single plant collected in the Matanuska Valley in 1957. Spaced-plant progeny of this collection were included in a large evaluation nursery established in 1958. Open-pollinated seed of five plants of Line 339, produced in 1959, was composited for an initial increase in isolation. Subsequently, 60 clones were selected for vigor and appearance and advanced in bulk for testing. Ultraviolet-absorbing kernels were removed in the F7 and F8 generations to purify it for white seed production of Arctared has been generally satisfactory, as successive generations of increase from breeder seed.

Arctared produces a dense, medium-textured, medium-green turf. It is a winterhardy, creeping red fescue with a fine, medium-textured, medium-green leaf. Arctared is the first red fescue cultivar to show dependable resistance to stem rust, but all plants are susceptible to race 32. Stem rust resistance is due to the presence of the Pg-4 (B) gene. Arctared is moderately susceptible to most loose smut races prevalent at the time of release, and in this respect, was better than Chief, Garland, ‘Holden’, or ‘Trio’. Most seedling plants resemble the parents, and the Uniform Midseason Oat Performance Nursery during 1968-71 and 1973.

Spear is a midseason oat that heads about the same time as ‘Chief’ and ‘Garland’. Plants are midtall, being similar in height to ‘Chief’ and ‘Garland’. Straw strength and Groat percentage are good, being about the same as ‘Chief’ and ‘Garland’. Straw strength is higher than ‘Chief’ and ‘Garland’. Straw strength and Groat percentage are still present on some plants. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland’. Groat percentage is high, being about the same as ‘Chief’ and ‘Garland'.